

CLAIMS

What is claimed is:

1. A modularized electronic device assembly architecture for the assembly of a modularized electronic device to a base chassis;

5 the modularized electronic device assembly architecture comprising:

a supportive base, which is provided on the base chassis, and which is defined with a mounting area and is provided with a guide structure at a predefined position;

a bracket, which is used to hold the modularized electronic device, and which is formed with a pivoting point on one side thereof;

10 a hand-turnable reciprocating device, which is formed with a rotating portion, a spirally-extending rail portion, and a handle portion; wherein

the rotating portion is substantially a cylindrical disk having axis pivotally linked to the pivoting point on the bracket so as to be pivotally turnable about the pivoting point;

15 the spirally-extending rail portion is a rail structure which extends along the cylindrical surface of the rotating portion and is meshable to the guide structure; and

the handle portion is an elongated bar structure having one end linked to the rotating portion and the other end being a free end;

and wherein

20 when the rotating portion is urged by the handle portion to turn in a first angular direction, it causes the spirally-extending rail portion to generate a linear force in a first direction that pushes the bracket in the first direction and therefore the modularized electronic device in position on the supportive base on the base chassis; and whereas

when the rotating portion is urged by the handle portion to turn in a second angular direction, it causes the spirally-extending rail portion to generate a linear force in a second direction that pulls the bracket in the second direction and thereby withdraw the modularized electronic device from the base chassis.

5 2. The modularized electronic device assembly architecture of claim 1, wherein the modularized electronic device is a modularized hard disk drive.

3. The modularized electronic device assembly architecture of claim 1, wherein the modularized electronic device is a modularized CD/DVD drive.

4. The modularized electronic device assembly architecture of claim 1, wherein the
10 guide structure includes a pair of pins separated from each other by a predefined width that is matched to the thickness of the spirally-extending rail portion of the hand-turnable reciprocating device so as to allow the spirally-extending rail portion to be meshable to the passage between the two pins.

5. The modularized electronic device assembly architecture of claim 1, wherein the
15 supportive base is provided with an engaging sidewall structure which defines the mounting area on the supportive base.

6. The modularized electronic device assembly architecture of claim 5, wherein the engaging sidewall structure is formed with a plurality of engaging openings, and correspondingly, the bracket is formed with a plurality of tongues on the sides thereof, for
20 engaging the bracket to the supportive base by means of fitting the tongues against the engaging openings.

7. The modularized electronic device assembly architecture of claim 1, wherein the bracket is further formed with a locking peg beside the pivoting point, and

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correspondingly, the handle portion of the hand-turnable reciprocating device is formed with a locking hole in the free end thereof, for locking the handle portion in position when the modularized electronic device is mounted in position on the base chassis.

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